

WHAT IS CLAIMED IS:

1. A connector member for electrical connections through a wall of the fuel tank of a motor vehicle, in particular for an LPG fuel tank or the like, designed to operate with a pressure within the tank higher than the external pressure, wherein it comprises a body at least partially made of synthetic material or of elastomer material, designed to be received in a through hole of a wall or plate of the tank, in which there are embedded one or more conductor pins projecting from the opposite ends of said body.

2. The connector member according to Claim 1, wherein it is associated to means for pre-loading axially said body or parts thereof for the purpose of improving the seal between the body of the connector and the seat in the wall or plate of the tank.

3. The connector member according to Claim 1, wherein the body of the connector is made of synthetic material and has a portion designed to be received in the aforesaid through hole of the wall or plate of the tank, said portion having a circumferential groove for a seal ring, and an end flange provided with holes for engagement of fixing screws to the wall or plate of the tank, said flange having front cavities, each traversed by a respective conductor pin, with a seal ring mounted within each of said axial cavities between the respective conductor pin and the wall of the cavity.

4. The connector member according to Claim 3, wherein the seal rings mounted within said front cavities of the flange are pressed axially by portions projecting from a covering plate juxtaposed with said flange.

5. The connector member according to Claim 4, wherein said covering plate has holes corresponding to

the holes of the flange so as to enable fixing to the body of the connector by means of the same screws that fix the connector to the wall or plate of the tank.

5 6. The connector member according to Claim 1, wherein the body of the connector is made of elastomer material and also performs the function of seal.

10 7. The connector member according to Claim 6, wherein it comprises an auxiliary plate, which can be fixed to the wall or plate of the tank so as to compress axially the body made of elastomer material of the connector against a contrast surface made in its seat.

15 8. The connector member according to any one of the preceding claims, wherein the aforesaid conductor pins have portions of variable cross section for improving the connection between said pins and the body of the connector moulded on them.

20 9. The connector member according to Claim 6, wherein the body made of elastomer material has, at least at one of its ends, axial protuberances set at a distance apart from one another, which each surround a respective conductor pin and which are each received in a respective seat of said wall or plate or of said covering plate.

25 10. A fuel tank for a motor vehicle, in particular an LPG fuel tank, comprising a hollow body containing at least one electrical component and having a mouth closed by a covering plate, said fuel tank being wherein said plate has at least one through hole, 30 within which there is received a connector member according to one or more of the preceding claims.